



SEQUENCE LISTING

<110> Theres, Nikolaus

<120> PLANTS WITH CONTROLLED SIDE-SHOOT
FORMATION AND/OR ABSCISSION ZONE FORMATION

<130> 11216-002001

<140> 09/403,262

<141> 1999-10-15

<150> DE/197 15 700.9

<151> 1997-04-15

<150> PCT/DE98/01070

<151> 1998-04-15

<160> 14

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<210> 1

<211> 1729

<212> DNA

<213> Lycopersicon esculentum

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aaggaaaagaa	agacatgaaa	ggtttagatc	atgggaagtt	atgttgagga	gttgtggatt	1260
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TECH CENTER 1600/2900

tgttttaaaaa tttttaacat agaggactag gttgatgata tatagtattt aagttaacta 1680
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<212> PRT

<213> Lycopersicon esculentum

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			20					25					30		
Ala	Thr	Thr	Ile	Thr	Thr	Thr	Thr	Ile	Thr	Thr	Ser	Pro	Ala	Ile	Gln
		35					40					45			
Ile	Arg	Gln	Leu	Leu	Ile	Ser	Cys	Ala	Glu	Leu	Ile	Ser	Gln	Ser	Asp
	50					55					60				
Phe	Ser	Ala	Ala	Lys	Arg	Leu	Leu	Thr	Ile	Leu	Ser	Thr	Asn	Ser	Ser
65				70					75					80	
Pro	Phe	Gly	Asp	Ser	Thr	Glu	Arg	Leu	Val	His	Gln	Phe	Thr	Arg	Ala
			85					90						95	
Leu	Ser	Leu	Arg	Leu	Asn	Arg	Tyr	Ile	Ser	Ser	Thr	Thr	Asn	His	Phe
			100				105						110		
Met	Thr	Pro	Val	Glu	Thr	Thr	Pro	Thr	Asp	Ser	Ser	Ser	Ser	Ser	Ser
	115						120					125			
Leu	Ala	Leu	Ile	Gln	Ser	Ser	Tyr	Leu	Ser	Leu	Asn	Gln	Val	Thr	Pro
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Ile	Asn	Gly	Asn	His	Gln	Ala	Ile	His	Ile	Val	Asp	Phe	Asp	Ile	Asn
			165					170						175	
His	Gly	Val	Gln	Trp	Pro	Pro	Leu	Met	Gln	Ala	Leu	Ala	Asp	Arg	Tyr
		180					185						190		
Pro	Ala	Pro	Thr	Leu	Arg	Ile	Thr	Gly	Thr	Gly	Asn	Asp	Leu	Asp	Thr
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Leu	Arg	Arg	Thr	Gly	Asp	Arg	Leu	Ala	Lys	Phe	Ala	His	Ser	Leu	Gly
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Leu	Arg	Phe	Gln	Phe	His	Pro	Leu	Tyr	Ile	Ala	Asn	Asn	Asn	His	Asp
225					230				235					240	
His	Asp	Glu	Asp	Pro	Ser	Ile	Ile	Ser	Ser	Ile	Val	Leu	Leu	Pro	Asp
			245					250						255	
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		260					265						270		
Asp	Arg	Glu	Lys	Leu	Arg	Ile	Phe	Leu	His	Arg	Val	Lys	Ser	Met	Asn
	275					280						285			
Pro	Lys	Ile	Val	Thr	Ile	Ala	Glu	Lys	Glu	Ala	Asn	His	Asn	His	Pro
	290				295				300						
Leu	Phe	Leu	Gln	Arg	Phe	Ile	Glu	Ala	Leu	Asp	Tyr	Tyr	Thr	Ala	Val
305					310				315					320	
Phe	Asp	Ser	Leu	Glu	Ala	Thr	Leu	Pro	Pro	Gly	Ser	Arg	Glu	Arg	Met
			325					330					335		
Thr	Val	Glu	Gln	Val	Trp	Phe	Gly	Arg	Glu	Ile	Val	Asp	Ile	Val	Ala
		340					345					350			
Met	Glu	Gly	Asp	Lys	Arg	Lys	Glu	Arg	His	Glu	Arg	Phe	Arg	Ser	Trp
	355					360						365			
Glu	Val	Met	Leu	Arg	Ser	Cys	Gly	Phe	Ser	Asn	Val	Ala	Leu	Ser	Pro
	370					375						380			

Phe Ala Leu Ser Gln Ala Lys Leu Leu Leu Arg Leu His Tyr Pro Ser
 385 390 395 400
 Glu Gly Tyr Gln Leu Gly Val Ser Ser Asn Ser Phe Phe Leu Gly Trp
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<220>
 <223> Primer for PCR

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<220>
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<210> 5
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<220>
 <223> Primer for PCR

<400> 5
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<210> 6
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for PCR

<400> 6
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<210> 7
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<223> Primer for PCR

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22

<210> 8

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for PCR

<400> 8

ggcccccata tctttttcc

19

<210> 9

<211> 1296

<212> DNA

<213> Solanum tuberosum

<400> 9

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acaacgacct	caccagctat	tcaaatccgc	cagctactca	ttagctgtgc	ggagttgatt	180
tcgcggtccg	atttctcggc	cgcgaaaaga	ctccttacca	tattatcaac	taactcttct	240
ccttttggtg	attcaactga	acggttagtc	catcagttta	ctcgcgcact	ttcccttcgt	300
ctcaaccgct	atatatcgtc	aaccaccaat	catttcatga	cacctgttga	aacaactcca	360
actgattctt	catcttcggt	gccatcgta	tcattagctc	taattcaatc	atcatatcat	420
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gaagcaaata	ataaccatcc	tcttttttta	caaagattta	tcgaggcggt	ggattattat	960
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aggaaagaaa	gacatgaaag	gtttagatca	tgggaagtta	tggtgaggag	ttgtggattt	1140
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<211> 431

<212> PRT

<213> Solanum tuberosum

<400> 10

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Asp	Glu	Glu	Ser	Ser	Asp	His	His	Gln	Arg	Arg	Arg	Phe	Thr	Ala	Thr
			20					25				30			
Thr	Thr	Thr	Ile	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Ser	Pro	Ala	Ile	Gln
			35				40					45			

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Ile Arg Gln Leu Leu Ile Ser Cys Ala Glu Leu Ile Ser Arg Ser Asp
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Phe Ser Ala Ala Lys Arg Leu Leu Thr Ile Leu Ser Thr Asn Ser Ser
65      70      75      80
Pro Phe Gly Asp Ser Thr Glu Arg Leu Val His Gln Phe Thr Arg Ala
85      90      95
Leu Ser Leu Arg Leu Asn Arg Tyr Ile Ser Ser Thr Thr Asn His Phe
100     105     110
Met Thr Pro Val Glu Thr Thr Pro Thr Asp Ser Ser Ser Ser Leu Pro
115     120     125
Ser Ser Ser Leu Ala Leu Ile Gln Ser Ser Tyr His Ser Leu Asn Gln
130     135     140
Val Thr Pro Phe Ile Arg Phe Thr Gln Leu Thr Ala Asn Gln Ala Ile
145     150     155     160
Leu Glu Ala Ile Asn Gly Asn His Gln Ala Ile His Ile Val Asp Phe
165     170     175
Asp Ile Asn His Gly Val Gln Trp Pro Pro Leu Met Gln Ala Leu Ala
180     185     190
Asp Arg Tyr Pro Ala Pro Thr Leu Arg Ile Thr Gly Thr Gly Asn Asp
195     200     205
Leu Asp Thr Leu Arg Arg Thr Gly Asp Arg Leu Ala Lys Phe Ala His
210     215     220
Ser Leu Gly Leu Arg Phe Gln Phe His Pro Leu Tyr Ile Ala Asn Asn
225     230     235     240
Asn Arg Asp His Gly Glu Asp Pro Ser Ile Ile Ser Ser Ile Val Leu
245     250     255
Leu Pro Asp Glu Thr Leu Ala Ile Asn Cys Val Phe Tyr Leu His Arg
260     265     270
Leu Leu Lys Asp Arg Glu Lys Leu Arg Ile Phe Leu His Arg Val Lys
275     280     285
Ser Met Asn Pro Lys Ile Val Thr Ile Ala Glu Lys Glu Ala Asn His
290     295     300
Asn His Pro Leu Phe Leu Gln Arg Phe Ile Glu Ala Leu Asp Tyr Tyr
305     310     315     320
Thr Ala Val Phe Asp Ser Leu Glu Ala Thr Leu Pro Pro Gly Ser Arg
325     330     335
Glu Arg Met Thr Val Glu Gln Val Trp Phe Gly Arg Glu Ile Val Asp
340     345     350
Ile Val Ala Met Glu Gly Asp Lys Arg Lys Glu Arg His Glu Arg Phe
355     360     365
Arg Ser Trp Glu Val Met Leu Arg Ser Cys Gly Phe Ser Asn Val Ala
370     375     380
Leu Ser Pro Phe Ala Leu Ser Gln Ala Lys Leu Leu Leu Arg Leu His
385     390     395     400
Tyr Pro Ser Glu Gly Tyr Gln Leu Gly Val Ser Ser Asn Ser Phe Phe
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<211> 20

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<213> Artificial Sequence

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<223> Primer for PCR

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<221> misc_feature
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 <213> Arabidopsis thaliana

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 Thr Arg Phe Ala Asp Ser Leu Gly Leu Gln Phe Gln Phe His Thr Leu
 35 40 45
 Val Ile Val Glu Glu Asp Leu Ala Gly Leu Leu Leu Gln Ile Arg Leu
 50 55 60
 Leu Ala Leu Ser Ala Val Gln Gly Glu Thr Ile Ala Val Asn Cys Val
 65 70 75 80

[illegible]